CLAIMS

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- 1. A release agent, comprising:
 - a. food grade mineral oil;
 - b. water; and
 - c. an emulsifier, in a quantity sufficient to form an emulsion between said food grade mineral oil and said water.
- 2. A release agent as recited in claim 1, wherein said food grade mineral oil is white oil.
- 3. A release agent as recited in claim 1, wherein said food grade mineral oil is polydimethylsiloxane.
- 4. A release agent as recited in claim 2, wherein said emulsifier is sorbitan monostearate.
- 5. A release agent as recited in claim 3, wherein said emulsifier is sorbitan monostearate.
- 6. A release agent as recited in claim 1, further comprising vegetable oil.

- 7. A release agent as recited in claim 6, wherein said vegetable oil is selected from the group comprising: sunflower oil, soybean oil, corn oil, olive oil, peanut oil, safflower oil, cottonseed oil, and palm oil.
- 8. A release agent as recited in claim 2, further comprising vegetable oil.
- 9. A release agent as recited in claim 8, wherein said vegetable oil is selected from the group comprising: sunflower oil, soybean oil, corn oil, olive oil, peanut oil, safflower oil, cottonseed oil, and palm oil.
- 10. A release agent as recited in claim 3, further comprising vegetable oil.
- 11. A release agent as recited in claim 10, wherein said vegetable oil is selected from the group comprising: sunflower oil, soybean oil, corn oil, olive oil, peanut oil, safflower oil, cottonseed oil, and palm oil.
- 12. A release agent as recited in claim 4, further comprising vegetable oil.
- 13. A release agent as recited in claim 12, wherein said vegetable oil is selected from the group comprising: sunflower oil, soybean oil, corn oil, olive oil, peanut oil, safflower oil, cottonseed oil, and palm oil.

- 14. A release agent as recited in claim 5, further comprising vegetable oil.
- 15. A release agent as recited in claim 14, wherein said vegetable oil is selected from the group comprising: sunflower oil, soybean oil, corn oil, olive oil, peanut oil, safflower oil, cottonseed oil, and palm oil.

16. A release agent, comprising:

- a. food grade mineral oil, wherein the volume of said food grade mineral oil is in the range of about 15% to about 25% of the total volume of said release agent;
- b. water, wherein the volume of said water is in the range of about 70% to about 85% of the total volume of said release agent; and
- c. an emulsifier, wherein the volume of said emulsifier is in the range of about .1% to about 5% of the total volume of said release agent.
- 17. A release agent as recited in claim 16, wherein said release agent is diluted by adding additional water so that said release agent comprises:
 - a. food grade mineral oil, wherein the volume of said food grade mineral oil is in the range of about 2% to about 6% of the total volume of said release agent;
 - water, wherein the volume of said water is in the range of about 89% to about 97%
 of the total volume of said release agent; and
 - c. an emulsifier, wherein the volume of said emulsifier is in the range of about .1% to about 5% of the total volume of said release agent.

- 18. A release agent, comprising:
 - a. food grade mineral oil, wherein the volume of said food grade mineral oil is in the range of about 25% to about 35% of the total volume of said release agent;
 - b. water, wherein the volume of said water is in the range of about 60% to about 75% of the total volume of said release agent; and
 - c. an emulsifier, wherein the volume of said emulsifier is in the range of about .1% to about 5% of the total volume of said release agent.
- 19. A release agent as recited in claim 18, wherein said release agent is diluted by adding additional water so that said release agent comprises:
 - a. food grade mineral oil, wherein the volume of said food grade mineral oil is in the range of about 5% to about 7% of the total volume of said release agent;
 - b. water, wherein the volume of said water is in the range of about 88% to about 94% of the total volume of said release agent; and
 - c. an emulsifier, wherein the volume of said emulsifier is in the range of about .1% to about 5% of the total volume of said release agent.

20. A release agent, comprising:

- a. polydimethylsiloxane, wherein the mass of said polydimethylsiloxane is in the range of about 15% to about 25% of the total mass of said release agent;
- b. sunflower oil, wherein the mass of said sunflower oil is in the range of about 5% to about 10% of the total mass of said release agent;
- c. an emulsifier, wherein the mass of said emulsifier is in the range of about .5% to about
 2% of the total mass of said release agent; and
- d. water, wherein the mass of said water is in the range of about 63% to about 79% of the total mass of said release agent.
- 21. A release agent as recited in claim 20, wherein said release agent is diluted by adding additional water, so that said release agent comprises:
 - a. polydimethylsiloxane, wherein the mass of said polydimethylsiloxane is in the range of about 4% to about 7% of the total mass of said release agent;
 - b. sunflower oil, wherein the mass of said sunflower oil is in the range of about 1% to about 3% of the total mass of said release agent;
 - c. an emulsifier, wherein the mass of said emulsifier is in the range of about .1% to about .5% of the total mass of said release agent; and
 - d. water, wherein the mass of said water is in the range of about 89% to about 95% of the total mass of said release agent.

- b. water, wherein the volume of said water is in the range of about 60% to about 75% of the total volume of said release agent; and
- c. an emulsifier, wherein the volume of said emulsifier is in the range of about .1% to about 5% of the total volume of said release agent.

22. A release agent, comprising:

- a. polydimethylsiloxane, wherein the mass of said polydimethylsiloxane is in the range of about 15% to about 25% of the total mass of said release agent;
- b. sunflower oil, wherein the mass of said sunflower oil is in the range of about 5% to about 10% of the total mass of said release agent;
- c. a first emulsifier, suitable for mixing with water, wherein the mass of said emulsifier is in the range of about .5% to about 2% of the total mass of said release agent;
- d. a second emulsifier, suitable for mixing with polydimethylsiloxane, wherein the mass of said emulsifier is in the range of about .5% to about 2% of the total mass of said release agent; and
- e. water, wherein the mass of said water is in the range of about 63% to about 79% of the total mass of said release agent.

- 23. A release agent as recited in claim 22, wherein said release agent is diluted by adding additional water, so that said release agent comprises:
 - a. polydimethylsiloxane, wherein the mass of said polydimethylsiloxane is in the range of about 4% to about 7% of the total mass of said release agent;
 - b. sunflower oil, wherein the mass of said sunflower oil is in the range of about 1% to about 3% of the total mass of said release agent;
 - c. a first emulsifier, suitable for mixing with water, wherein the mass of said emulsifier is in the range of about .1% to about .5% of the total mass of said release agent;
 - d. a second emulsifier, suitable for mixing with polydimethylsiloxane, wherein the mass of said emulsifier is in the range of about .1% to about .5% of the total mass of said release agent; and
 - e. water, wherein the mass of said water is in the range of about 89% to about 95% of the total mass of said release agent.
- 24. A method for making a release agent, comprising:
 - a. heating silicone oil to a temperature between 100°C and 130°C;
 - b. adding boiling water to said silicone oil, to form a first mixture; and
 - c. adding an emulsifier to said first mixture to form a second mixture.

- 25. A method as recited in claim 24, wherein said emulsifier is sorbitan monostearate.
- 26. A method as recited in claim 24, wherein:
 - a. said silicone oil comprises about 19% of the total volume of said release agent;
 - b. said emulsifier comprises between about 1% and about 2% of the total volume of said release agent; and
 - c. said water comprises between about 79% and about 81% of the total volume of said release agent.
- 27. A method as recited in claim 26, wherein:
 - a. additional water is added so that said water comprises between about 91% and about
 96% of the total volume of said release agent;
 - b. said silicone oil comprises about 4% of the total volume of said release agent; and
 - c. said emulsifier comprises between about .2% and about .5% of the total volume of said release agent.
- 28. A method as recited in claim 24, wherein:
 - a. said silicone oil comprises about 32% of the total volume of said release agent;
 - said emulsifier comprises between about 1% and about 2% of the total volume of said
 release agent; and
 - c. said water comprises between about 64% and about 65% of the total volume of said release agent.

- 29. A method as recited in claim 28, wherein:
 - a. additional water is added so that said water comprises between about 92% and about
 93% of the total volume of said release agent;
 - b. said silicone oil comprises about 6.7% of the total volume of said release agent; and
 - c. said emulsifier comprises between about .2% and about .5% of the total volume of said release agent.
- 30. A method as recited in claim 24, further comprising adding a vegetable oil to form a third mixture.
- 31. A method as recited in claim 30, wherein:
 - a. said silicone oil comprises about 21% of the total volume of said release agent;
 - b. said vegetable oil comprises about 8% of the total volume of said release agent;
 - c. said emulsifier comprises about 1% of the total volume of said release agent; and
 - c. said water comprises between about 70% of the total volume of said release agent.
- 32. A method as recited in claim 31, wherein:
 - a. additional water is added so that said water comprises about 92% of the total volume
 of said release agent;
 - b. said silicone oil comprises about 5% of the total volume of said release agent;
 - c. said vegetable oil comprises about 2% of the total volume of said release agent; and
 - d. said emulsifier comprises about .3% of the total volume of said release agent.

33. A method as recited in claim 30, wherein said vegetable oil is is selected from the group comprising: sunflower oil, soybean oil, corn oil, olive oil, peanut oil, safflower oil, cottonseed oil, and palm oil.

34. A method as recited in claim 24, wherein:

- a. said silicone oil comprises between about 15% and about 25% of the total volume of said release agent;
- b. said emulsifier comprises between about .1% and about 5% of the total volume of said release agent; and
- c. said water comprises between about 70% and about 85% of the total volume of said release agent.

35. A method as recited in claim 34, wherein:

- a. additional water is added so that said water comprises between about 89% and about
 97% of the total volume of said release agent;
- said silicone oil comprises between about 2% and about 6% of the total volume of said release agent; and
- c. said emulsifier comprises between about .1% and about 5% of the total volume of said release agent.

- 36. A method as recited in claim 30, wherein:
 - said silicone oil comprises between about 15% and about 25% of the total volume of said release agent;
 - b. said vegetable oil comprises between about 6% and about 10% of the total volume of said release agent;
 - c. said emulsifier comprises between about 1% and about 5% of the total volume of said release agent; and
 - said water comprises between about 70% and about 85% of the total volume of said
 release agent.
- 37. A method as recited in claim 36, wherein:
 - a. additional water is added so that said water comprises between about 89% and about
 97% of the total volume of said release agent;
 - b. said silicone oil comprises between about 2% and about 6% of the total volume of said release agent;
 - c. said vegetable oil comprises between about 1% and about 2% of the total volume of said release agent; and
 - d. said emulsifier comprises between about .1% and about 5% of the total volume of said release agent.

- 38. A method for making a release agent, comprising:
 - a. heating silicone oil to a temperature between 100°C and 130°C;
 - b. adding a first emulsifier to said silicone oil to create a first mixture;
 - c. heating water to its boiling point;
 - d. adding a second emulsifier to said boiling water to create a second mixture; and
 - e. combining said first and second mixtures to create a third mixture.
- 39. A method as recited in claim 38, further comprising adding vegetable oil to said third mixture to form a fourth mixture.
- 40. A method as recited in claim 39, wherein said vegetable oil is selected from the group comprising: sunflower oil, soybean oil, corn oil, olive oil, peanut oil, safflower oil, cottonseed oil, and palm oil.
- 41. A method as recited in claim 39, wherein:
 - a. said silicone oil comprises about 20% of the total volume of said release agent;
 - b. said vegetable oil comprises about 6% of the total volume of said release agent;
 - c. said first and second emulsifiers in combination comprise about 2% of the total volume of said release agent; and
 - d. said water comprises about 72% of the total volume of said release agent.

42. A method as recited in claim 41, further comprising adding additional water to create a diluted formulation.